"ORGANISATION AND MANAGEMENT OF SCIENTIFIC RESEARCH"

- A BIBLIOGRAPHY

Indian Institute of Public Administration
New Delhi-1.

C O N T E N T S

A Note

The books covered in this bibliography are available in the Library of the Indian Institute of Public Administration except where indicated. In the latter category are the libraries of the following organisations:-

CDRI - Central Drug Research Institute, Chattar Manzil Palace, Lucknow.

CERI - Central Electrochemical Research Institute, Cecrinagar, Karaikudi - 3.

CMERI - Central Mechanical Engineering Research Institute, Mahatma Gandhi Avenue, Durgapur -9.

CRRI - Central Road Research Institute, New Delhi-20.

CSIO - Central Scientific Instruments Organisation, Sector 30, Chandigarh.

CSIR - Council of Scientific and Industrial Research, Rafi Marg, New Delhi-1.

ICMR - Indian Council of Medical Research, Ansari Nagar, New Delhi-16.

IJIRA - Indian Jute Industries Research Association, P.O. Box No. 12, Calcutta-1.

NAL - National Aeronautical Laboratory, Post Bag No. 4, Bangalore-17.

NBG - National Botanic Gardens, Lucknow.

RRL - Regional Research Laboratory, Hyderabad-9.

SITRA - The South India Textile Research Association, Coimbatore-14.

USIS - American Library, 24, Curzon Road, New Delhi-1.

Introduction

The role of Science and Technology in achieving economic and social advancement has been universally recognised. Consequently, the various administrative aspects of scientific research have assumed appreciable importance. The large number of studies made during the recent past have thrown ample light on organization and management of scientific research.

The Indian Institute of Public Administration, recently took up some studies in the field of 'Science and Administration', on behalf of the Administrative Reforms Commission. In this connection, the research and reference staff of the Institute scanned through the available literature on administrative aspects of scientific research, which is listed in this bibliography.

The available books on organisation and management of scientific research are being put in the bibliography under seven categories viz., Science Policy, Scientific and Technological Personnel, Research Administration, History of Science, Industrial Research, Medical Research, and Agricultural Research. In addition, the bibliography covers public documents and articles in some specialised periodicals on the subject. The books have been annotated, so as to add to the usefulness of the bibliography.

The books available at some of the scientific research organization in India have also been included in the bibliography. The efforts of the Institute will be fully rewarded if the bibliography can help the scientists and technologists in India to use whatever information resources are available at various places.

Thanks are due to Shri K.P. Phatak, who prepared the bibliography and to Shri Ved Prakash who guided and edited the work.

J.N. Khosla
Director,
Indian Institute of Public Administration, New Delhi.

September, 1967.

I.A. BOOKS (Annotated)

(a) Scientific Policy

Barbar, Richard J. The politics of research. Washington, Public Affairs, 1966. 167p. $ 4.50 (Affairs of science must be brought within the effective control of political institutions. This can be done only if thoughtful citizens come to appreciate government-subsidized research and development. This volume is designed to assist in providing some of the information needed to gain that awareness).

Carter, C.F. and Williams, B.R. Science in industry: policy for progress. London, O.U.P., 1959. 186p. 21/- (Contains some suggestions for policy and action by industry and by Government, which may assist in the fruitful application of science. Written on behalf of the Science and Industry Committee set up in 1952 by the British Association for the Advancement of Science).

Cox, Donald W. America's new policy makers: the scientists' rise to power. Philadelphia, Chilton, 1964. 298p. $ 6.95 (Discussion on expanding role of American Scientist in political system).

Dupre, J. Stefan and Lackoff, Sanford A. Science and the nation: policy and politics. Englewood Cliffs, N.J., Prentice-Hall, 1962. 181p. $ 1.95 (This book explains the role of scientific research in the economic development of U.S.A. and the impact of science on government policies.)

Dupree, A. Hunter. Science in the federal government: a history of policies and activities to 1940. Cambridge, Mass., Harvard Univ. Press, 1957. 460p. $ 7.50 (The aim of this study is to trace the development of the policies and activities of the U.S. government from the establishment of the federal constitution to the year 1940).

Esslinger, William. Politics and science. N.Y., Philospophical Library, 1955. 167p. $ 3.00 (Part One and Two of this book are devoted to the necessity, the possibility, and the difficulties of scientific thinking in politics; Part Three suggests ways and means to further it).

Gilpin, Robert. American scientists and nuclear weapons policy. Princeton, N.J., Princeton Univ. Press, 1962. 352p. $ 6.95 (This book has grown out of work which began as research for Author's doctoral dissertation, it analyzes the politically relevant ideas of those scientists who have been influential in the formulation of American policy toward nuclear weapons).

Gilpin, Robert and Wright, Christopher, eds. Scientists and national policy making. N.Y., Columbia Univ. Press, 1964. 307p. $ 7.50 (This is a collection of ten papers by well-known writers on the role of scientists and science policy in politics and public administration)

Hailsham, Quintin McGarel Hogg, 2nd Viscount. Science and politics. London, Faber and Faber, 1963. 110p. 13/6 (The Author was appointed in 1959 to be the first Minister for Science in British history, he discusses in this book some of the problems to be solved by those responsible for the developing relationship between science and government).

Haskins, Caryl P. The scientific revolution and world politics. N.Y., Harper, 1964. 113p. $ 3.50 (The Author has examined the implications of the pressures exercised by science and technology in shaping world events; based on Elihu Root Lectures for Council on Foreign Relations in 1961).

Morgenthau, Hans J. Scientific man Vs. power politics. Chicago, Univ. of Chicago Press, 1952. 245p. $ 4.50 (The purpose of this book is to show why the belief in the power of science to solve all political problems is misplaced and to indicate those intellectual and moral faculties of man to which alone the problems of the social world will yield).

Mullenbach, Philip. Civilian nuclear power: economic issues and policy formation. N.Y., Twentieth Century Fund, 1963. 406p. $ 8.50 (This study is intended to provide an evaluation of policy formation that is based on economic analysis of the issues underlying power reactor development during the period 1953-61. Its purpose is to help policy makers find solutions as the area of private development and participation enlarges).

Schrader, Rudolf. Science and policy: on the interaction of scientific and political affairs. London, Pergamon Press, 1963. 81p. (This book deals with impact of science and technology on policy problems and military affairs and also some economic aspects of supporting research and development, bibliography pages 74-7). CSIR

Seitz, Dr. Frederick. The relationships between science and government. (Robert A. Welch Foundation Research Bulletin, No. 16, March 1965). 25p. (Based on lecture by Dr. Seitz, President, National Academy of Sciences, Washington) CSIR

Snow, C.P. Science and government. London, Oxford, 1961. 88p. 9/6 (contains the text of the Godkin lectures delivered by Snow at Harvard Univ. in 1960, he explains why not only professional administrators but also trained scientists are essential on all levels of government).

(b) Scientific and Technical Personnel

Alexander, Joyce. Scientific manpower. London, Hilger, 1959. 135p. 15/- (This book deals with various problems connected with shortage of technically trained manpower in U.K).

American Management Association. Optimum use of engineering talent: meeting the need for technical personnel. N.Y., AMA, 1961. 416p. (This book is offered for the purpose of sharing with others the experiences of a number of men who are prominent in various phases of engineering management).

American men of science: a biographical directory; 10th ed. Temple, Cattell, 1962. 1220p. $ 25.00 (This is the fifth volume of 'American Men of Science', covering the Social and Behavioral Sciences).

Blanshard, Brand, ed. Education in the age of science. N.Y., Basic Books, 1959. 302p. $ 4.50 (This book, a searching examination of American education by professionals is based on discussions in a seminar sponsored by the Tamiment Institute at Tamiment, Pennsylvania in June 1958 and also on further essays in 'Daedalus').

British Association for the Advancement of Science. Science in Schools: proceedings of a conference edited by W.H. Perkins. London, Butter-worth, 1958. 150p. 15/- (Proceedings of a conference under the auspices of the British Association for the Advancement of science held on April 17th and 18th, 1958, at the Royal Geographical Society, London).

Brown, J. Douglas and Harbison, Frederick. High-talent manpower for science and industry: an appraisal of policy at home and abroad. Princeton, Princeton Univ., 1957. 97p. $ 3.00 (No. 95 of Research Report Series by Industrial Relations Section, Dept. of Economics and Sociology, Princeton Univ., the two essays explore the appropriate role of the corporation, the university and the state in the development of talent).

Cole, Charles C., Jr. Encouraging scientific talent. N.Y. college Entrance Examination Board, 1956. 259p. $ 3.5 (A study of America's able students who are lost to college and of ways of attracting them to college and science careers; this study was conducted at the instance of the National Science Foundation and the chapters are the same as those submitted in the final report to the Foundation in June, 1955; bibliography - pages 230-55).

Conference on Industrial Research, 1951. Selection, training, and use of personnel in industrial research; proceedings of the second annual Conference on Industrial Research, June, 1951. N.Y., King's Crown Press, 1952. 274p. $ 4.50 (Sponsored by the Dept. of Industrial Engineering, Columbia University; objective of this conference was to assist research administrators achieve a wider understanding and deeper comprehension of the problems involved in the selection and training of research personnel. 'External communication of research results' - by H.B. McClure, p. 161-76., 2-page bibliography).

Constance, John D. How to become a professional engineer. N.Y., McGraw-Hill, 1958. 272p. $ 5.50 (This book is intended to help the young engineering student and the graduate to set a course that will ultimately lead to successful professional careers.)

Cooper Union for the Advancement of Science and Art. Brainpower quest, edited by Andrew A. Freeman. N.Y., Macmillan. 1958. 242p. $ 4.75 (A report on a convocation called by The Cooper Union to find new sources from which to draw tomorrow's leaders in science and engineering. The convocation was held in Oct. 1956).

Dey, B.K. Manpower planning for economic development in India, with a projection of engineering manpower demand. 108p. (Dissertation, Indian School of Public Administration, 1963-64 session).

Eiduson, Bernice T. Scientists: their psychological world. N.Y., Basic Books, 1962. 299p. $ 6.50 (Study of parental backgrounds, interests, aptitudes, scholastic performance, personality, intelligence, and other motivating factors in the lives of forty contemporary American research scientists; bibliography - pages 289-95).

Fortune. Great American scientists: America's rise to the forefront of world science. Englewood Cliffs, Prentice - Hall, 1961. 144p. (Prepared by Fortune's research staff, articles on physicists, biologists, chemists and astronomers). USIS

Galkin, K. The training of scientists in the Soviet Union. Moscow, Foreign Languages Publishing House, 1959. 205p. 2/9 (The aim of this book is to give some idea of the system of higher education and of how professors, teachers and scientists are trained in the Soviet Union).

International Bureau of Education, Geneva. Training of technical and scientific staff: measures to increase facilities; a comparative study. Geneva, The Bureau, 1959. 300p. $ 2.25 (Published jointly by Unesco and International Bureau, Publication No. 206. This enquiry is concerned with the statistical, financial, administrative - special committees, planning, etc. - social and educational aspects of the problem in fifty - five countries).

Kidd, Charles V. American universities and federal research Cambridge, Massachusetts, Belknap Press of Harvard Univ. Press, 1959. 272p. (The central thesis of this book is that large-scale financing of research has set in motion irreversible forces that are affecting the nature of universities, altering their capacity to teach, changing their financial status, modifying the character of parts of the federal administrative structure, establishing new political relations, and changing the way research itself is organized). USIS

Killeffer, D.H. The genius of industrial research. N.Y., Reinhold, 1948. 263p. (The Author's intention is to guide the ambitious young researcher, to a better understanding and a surer mastery of his craft). USIS

Klochko, Mikhail A. Soviet Scientist in China. London, Hollis & Carter, 1964. 192p. (Translated by Andrew MacAndrew, the Author, a Soviet Scientist was working in Peking, Kunming and elsewhere. He has written what he saw, heard and what he thought of it. He is chiefly concerned with life and work of scientists). CSIR

Kornhauser, William. Scientists in industry: conflict and accommodation. Berkeley, Univ. of California Press, 1962. 230p. $ 6.00 (This study analyzes relations between professional employees, the professions to which they belong, and the organizations for which they work; bibliography - pages. 208-22).

Korol, Alexander G. Soviet education for science and technology. N.Y.; Wiley, 1957. 513p. $ 8.50 (The aim of this book is to examine the organization and effectiveness of the Soviet formal training process in science and technology and to bring out implications for the overall quality of Soviet-trained scientists and engineers; bibliography, pages - 469-80).

Lindvelt, Earl W. Scientists in government. Washington, D.C., Public Affairs Press, 1960. 84p. (The objectives of this study are to appraise some of the significant factors relating to the development, nature and extent of the problem of retaining scientific personnel in federal government. Bibliography, pages p. 71-81).

McCrensky, Edward. Scientific manpower in Europe: a comparative study of scientific manpower in the public service of Great Britain and Selected European Countries. London, Pergamon Press, 1958. 188p. 40/- (Foreword by Sir Harry Melville, bibliography, pages 167-71).

Marcson, Simon. The scientist in American industry: some organizational determinants in manpower utilization. N.Y., Harper, 1960. 158p. $ 3.00 (The purpose of this study is to examine the organizational environment and the dynamics of adaptive behavior as the scientist goes about his research work in a laboratory. This book is published in cooperation with the Industrial Relations Section, Dept. of Economics, Princeton Univ.).

National Council of Educational Research and Training, New Delhi. Improved science teaching in schools. New Delhi, Council, 1963. 188p. (A report of the Experimental Programme in Science Education in India with special reference to the Summer Institute Programme of 1963 and the Conference of Education Secretaries held on July 29, 1963. compiled by Mrs. S. P.

Ochser, Paul H. Sons of science. N.Y., Abelard and Schuman, 1949. 200p. $ 4.00 (The story of the Smithsonian Institution and its leaders, this Institution was fou nded in 1846; bibliography, pages p.205-8).

Orleans, Leo A. Professional manpower and education in Communist China. Washington, D.C., Govt. Printing Office, 1960. 260p. $ 2.00 (This National Science Foundation - sponsored study examines the characteristics and training of Chinese professional manpower and their relationship to Communist China's technological development).

Parmjape, H.K. The flight of technical personnel in public undertakings. New Delhi, Indian Inst. of Public Administration, 1964. 191p. Rs.10.00 (This study based on data specially collected both from private and public sector enterprises, analyses the problem and suggests remedial action).

Payne, George Louis. Britain's scientific and technological manpower. Stanford, California, Stanford Univ. Press. 1960. 466p. 45/- (This study was undertaken at the request of the President's Committee on Scientists and Engineers, bibliography, pages 446-55).

Raudsepp, Eugene. Managing creative scientists and engineers. N.Y., Macmillan, 1963. 254p. $ 7.50 (Effective ways to manage, utilize and motivate creative professionals - proposals are 1) thorough understanding of the creative process, 2) intimate understanding of the attributes and characteristics of the creative professional, 3) insight into the subtle environmental forces and psychological conditions that best match the inherent requirements of creative functioning).

Shepherd, Walter. Great pioneers of science. London, Ward Lock & Co., 1964. 219p. 12/6 (This book tells the story of the world's foremost scientists and their chief discoveries from the time of Pythagoras to the present day. The Author shows that behind the many wonderful achievements of modern research lies an ancient scientific tradition that began with man's first groping attempts to understand his world, and grew to become one of the greatest cooperative human efforts in history). NAL

Thomas Alva Edison Foundation Institute. Strengthening science education for youth and industry. N.Y., Univ. Press, 1957. 162p. $ 5.00 (Proceedings of the Seventh Thomas Alva Edison Foundation Institute, Nov. 19-20, 1956).

Walton, Richard E. The impact of the professional engineering union. Boston, Harvard Univ., 1961. 419p. $ 5.00 (A study of collective bargaining among engineers and scientists and its significance for management, bibliography pages 401-7). USIS

(c) Research Administration

Ackoff, Russel L. and others. Scientific methods: optimizing applied research decisions. N.Y., Wiley, 1962 484p. $ 9.50 (Shiv K. Gupta and J. Sayer Minas are joint authors, this book is intended to improve the skill of the scientist in the conduct of inquiry).

Ackermann, Jean Marie. Communicating industrial ideas: an international handbook for industrial extension. Stanford Research Institute, 1962. 145p. $ 6.00 (The aim of this book is to present, in form suitable for use by industrial extension agents, some things that are known about communication and some ideas that have worked in communicating new industrial techniques). USIS

American Institute of Mining, Metallurgical and Petroleum Engineers. Management of materials research; edited by Dan H. Fenn, Jr. and Linda M. Fernberger, N.Y., Interscience, 1962. 171p. $ 9.00 (Metallurgical Society Conferences, Vol. 14. Based on the first conference for the "Management of Materials Research" sponsored by the Metallurgical Society, American Institute... Conference held in New York, May 17-19, 1961. The material is separated into two main parts- one on general problems and one on the problems of the people. There is a 4-page bibliography of suggested reading on many subjects touched upon or referred to at the conference.).

American Management Association. Getting the most from product research and development. N.Y., AMA, 1955. 149p. Special report, No.6 $ 3.75 (Fourteen papers presented by various hands at the special conference on "Managing product research and development" held by AMA Finance Division in New York, Oct. 6-7, 1955. The material offers solid achievement and informed discours by successful concerns in American industry).

American Management Association. Organizing the R & D function, by Alexander O. Stanley and K.K. White. N.Y., AMA, 1965. 223p. AMA Research Study, 72. $ 9.00 (This report describes the R & D structures most often found in industrial organizations at present. Part One gives an overview of the basic building blocks used in grouping scientists and engineers at the working level. It outlines the strengths and weaknesses of the basic structures and offers an approach to choosing among them. Part Two of the report presents charts and descriptions of the R & D organizations of 42 industrial companies for comparison. Part Three adds representative job descriptions for key managerial and supervisory positions relating to research and development).

Anthony, Robert N. Management controls in industrial research organizations. Assited by John S. Day. Boston, Graduate School of Business Administration, Harvard Univ., 1952. 537p. $ 6.75 (The Author presents the results of a broad, first-hand study of the problems of administrative control of scientific research activities in American industry. Contains four case studies and a 9-page bibliography).

Berle, Alf K. and De Camp, L. Sprague. Inventions, patents, and their management. Princeton, New Jersey, Van Nostrand, 1959. 602p. (This book is intended to serve inventors as a guide to the inventive, legal, and commercial procedure involved in developing an idea into a profitable product; bibliography pages - 534-6). USIS

British Institute of Management. The functions of a research department in a small firm, by W.E. Benton. London, BIM, 1951. 24p. 3/6 (Production Management Series, No.3, it is based on W.E. Benton's paper given to the BIM Autumn Management Conference, Harrogate, 1950).

Burns, Tom and Stalker, G.M. The management of innovation. London, Tavistock Publications, 1961. 269p. 30/- (This book is about the attempts - successful and unsuccessful - of industry to exploit new scientific information. It is based on studies of twenty concerns, most of them engaged in the development of electronic devices and systems).

Buckles, Robert A. Ideas, inventions, and patents: how to develop and protect them. N.Y., Wiley, 1957. 270p. (The Author's intention is to present in broad general outlines the fundamental principles and philosophy of laws respecting 'intellectual property' for the purpose of pointing the way to more effective protection and exploitation of ideas and inventions). USIS

Cockcroft, Sir John, ed. The organization of research establishments. Cambridge Univ. Press, 1965. 63/- 275 (The objective of this book is to discuss the factors which make for creativity and productivity in research establishments. There are contributions from heads of 13 research establishments).

Collinson, H.A. Management for research and development. London, Pitman, 1964. 131p. 16/- (Arising from the courses offered by the British Institute of Management there were requests for a book dealing specifically with the management of research and development, and this volume is an attempt to meet the demand).

Cronstedt, Val. Engineering management and administration. N.Y., McGraw-Hill, 1961. 345p. $ 8.50 (Modern tools, policies and practices - used to manage engineering departments more efficiently - are defined and described in this handbook for today's engineers. Appendix IV, - pages 329-35, presents an organization chart for an engineering department).

Heyel, Carl, ed. Handbook of industrial research management. N.Y., Reinhold Pub. Corpn., 1960. 513p. $ 12.00 (Seventeen articles on organization, evaluation and control of industrial research).

Hilton, Peter. Handbook of new product development. Englewood Cliffs, Prentice-Hall, 1961. 223p. (The aim of this book is to provide a detailed, step-by-step description of every phase of a successful new product program; bibliography pages 195-217). USIS

Kast, Fremont E. and Rosenzweig, James E., eds. Science, technology and management. N.Y., McGraw-Hill, 1963. 368p. $ 7.95 (Proceedings of the National Advanced - Technology Management Conference, Seattle, Washington, Sep. 4-7, 1962. The participants examine the problems of managing very large and complex advanced-technology programs from their inception to operation of the end products).

Laitala, Everett. Engineering and organization. Homewood, Illinois, Irwin, 1959. 391p. $ 6.00 (This text concerns itself with the dynamics of engineering. Thus its objective is to examine the forces which give it purpose, those which produce engineering action, and those which govern its action toward desired goals).

Livingston, Robert Teviot and Milberg, S.H., eds. Human relations in industrial research management. N.Y., Columbia, 1957. 418p. $ 8.50 (Includes papers from the sixth and seventh annual conferences on industrial research, Columbia University, 1955 and 1956; 6-page bibliography, 'Role of communications in research - by D.B. Hertz and A. H. Rubenstein, p.197-207).

McCamy, James. Science and public administration. Univ. of Alabama Press, 1960. 218p. $ 3.50 (Lectures delivered at Southern Regional Training Program in Public Administration, Univ. of Alabama).

Mees, C.E. Kenneth and Leermakers, John A. The organization of industrial scientific research; 2nd edition. N.Y., McGraw-Hill, 1950. 383p. $ 6.50 (First published in 1920, presents an account of the history and development of industrial scientific research, the general principles of its conduct, and an analysis of the methods actually used for the organization and operation of industrial research laboratories, chapter on 'Transfer of research to production', p. 259-67).

Orth, Charles D. 3rd and others. Administering research and development: the behavior of scientists and engineers in organizations. Homewood, Illinois, Irwin, 1964. 585p. $ 8.95 (Josheph C. Bailey and Francis W. Wolek are the joint authors, this book contains thirty-six cases on the management of research and development groups).

Reeves, E. Duer. Management of industrial research. N.Y., Reinhold, 1967. 207p. $ 9.00 (Based upon modern industrial research, this book deals comprehensively with the total development and execution of successful business strategies. It outlines in detail the management actions required for effective planning, for creation of the necessary technology, and for coordination of corporate resources to produce sound business strategies).

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Reeves, E. Duer. Management of industrial research. N.Y., Reinhold, 1967. 207p. $ 9.00 (Based upon modern industrial research, this book deals comprehensively with the total development and execution of successful business strategies. It outlines in detail the management actions required for effective planning, for creation of the necessary technology, and for coordination of corporate resources to produce sound business strategies).

Rothstein, Jerome. Communication, organization, and science. Indian Hills, Colorado, Falcon's Wing Press, 1958. 110p. $ 3.50 (The aim of this book is to develop the concepts of measurement, communication, entropy and of organization in relation to each other and to explore some of the consequences of this relationship).

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Walters, J.E. Research management: principles and practice. Washington, D.C., Spartan Books, 1965. 367p. $ 12.00 (The information is based on the author's background of experience in industry and on the results of personal investigations of the management of research and development in the laboratories of 37 companies).

Woodling, George V. Inventions and their protection; 2nd edition. N.Y., Matthew Bender & Co., 1954. 495p. (The primary aim of this book is to help the executive engineer and the designer in the protection and commercial development of their creations by giving them a practical knowledge of patents which will be valuable in their daily work).

(d) History of Science *

Aligarh. Muslim University. Directorate of General Education Reading Material Project. Science: its method and outlo Bombay, Asia, 1963. 85p. Rs.6.50 (General Education Reading Material Series, No. 14, selection from the writings of Bacon, Deseartes, Wells, Bronowski, Bernal and Russell).

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Asimov, Isaac. The new intelligent man's guide to science. London, Nelson, 1967. 864p. 63/- (This book gives a panoramic view of modern science, tracing the development of basic ideas, highlighting the important developments and indicating the meaning of today's scientific discoveries).

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Barzun, Jacques. Science: the glorious entertainment. London, Secker & Warburg, 1964. 322p. (Author's aim is to turn over the pieces of our scientific culture and point out their workings, which by common report are bedeviling the world; reference notes, pages 309-16).

Bernal, J.D. Science in history; 2nd edition. London, Watts, 1957. 984p. 42/- (The aim of this book is to bring out the influence of science upon other aspects of history, whether direct or indirect, through its effect on economic changes, or through its influence on the ideas of the classes of the day or of those who are striving to supplant them, bibliography - pages 934-48).

Bernal, J.D. World without war. London, Routledge, 1958. 308p. 25/- (The Author has brought together the dark and the bright side of the new power that science has given to mankind by bringing out their interactions, bibliography - pages 297-301).

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British Association for the Advancement of Science. Guildhall lectures, 1962. Manchester, Grand T.V. Network, 1962. 102p. 4/6 (This is fourth volume of the annual lectures organized by the Association and sponsored by Granada TV Network. Contents-1) 'The past speaks to the present', by Prof. Yigael Yadin, 2) 'Television for teaching' by Yoshinori Maeda, 3) 'The language of economics,' by Dr. J.K. Galbraith. The general title of the Granada lectures is 'Communication in the modern world').

Brown, G. Spencer. Probability and scientific. London, Longmans, 1957. 154p. 15/- (In this book the field of probability is analysed, with a commentary by A.T.Oran).

Bush, Vannevar. Modern arms and free man: a discussion of the role of science in preserving democracy. London, Heinemann, 1950. 300p. 10/6 (Aspirations of men of good will may become realities, if we keep our stregth, is the thesis of the book).

Caldwell, Otis W. and Slosson, E. Science remaking the world. New York, Garden City Pub. Co., 1923. 292p. (This book provides information about the achievements of modern science, based on a course of lectures in Teachers' College, Columbia University). NBG

Chamber's technical dictionary; revised edition by C.F. Tweney and L.E.C. Hughes. London, Chambers, 1957. 1028p. 35/- (The aim of this dictionary is to give, definitions of terms that are of importance in pure and applied science, in all branches of engineering and construction, and in the larger manufacturing industries and skilled trades. It was first published in 1940).

Churchman, C. West. Theory of experimental inference. N.Y. Macmillan, 1957. 292p. $ 5.00 (The author has attempted to show that besides certain statistical considerations, the self-conscious experimenter must take into account very general problems concerning the natural universe within which he is solving his special problems).

Churchman, C. West and others. Introduction to operations research. N.Y., Wiley, 1957. 645p. (This book has two objectives - 1) to provide prospective consumers of operations research with a basis for evaluating the field and 2) to provide potential practitioners with a survey of the field). CSIR

Cohen, Morris R. and Nagel, Ernest. An introduction to logic and scientific method. London, Routledge, 1957. 467p. 30/- (This book seeks to bring some order into the confusion of tongues concerning the subject matter of logic. It aims to combine sound logical doctrine with sound pedagogy).

Conant, James B. Science and common sense. New Haven, Yale Univ. Press, 1961. 345p. (In this the Author narrates that science has become increasingly an activity in which government must play a constructive role. Basically this book is an attempt to solve a different pedagogical problem, namely, providing the non-scientist with some understanding of the way scientists operate). NAL

Cottrell, Fred. Energy and society; the relation between energy, social change and economic development. N.Y., McGraw-Hill. 330p. $ 2.95 (This book traces man's use of energy available from animals to steam power and electricity, and indicates broadly the influences on social interrelations). NAL

Fowler, W.S. The development of scientific method. Oxford, Pergamon, 1962. 116p. 10/- (This book issued by The Commonwealth and International Library of Science, Technology and Engineering to cover the needs of instructors and pupils in all types of schools and educational institutions).

Frank, Philip G., ed. The validation of scientific theories. Boston, Beacon Press, 1956. 242p. $ 5.00 The papers published in this book were first presented at the annual meeting of the American Association for the Advancement of Science in Boston, Massachusetts, Dec. 1953 and sponsored by the Institute for the Unity of Science, National Science Foundation and other bodies).

Franklin, T. Bedford. Science and reality. London, G. Bell & Sons, 1947. 56p. (This book gives a brief sketch of relationship between science and theology). NBG

Ganow, George. One, two, three ... infinity: facts and speculations of science. New York, New American Library, 1960. (This book is an attempt to collect the most interesting facts and theories of modern science in such a way as to give the reader a general picture of the universe in its microscopic and macroscopic manifestations, as it presents itself to the eye of the scientists of today). NBG

Gardner, Martin. Fads and fallacies in the name of science; 2nd edition. N.Y., Dover, 1957. 363p. $ 1.50 (First published in 1952 under the title 'In the name of science', the book examines the various fads, fallacies, strange cults and curious panaceas which at one time or another have masqueraded as science).

Gillespie, Charles Coulston. The edge of objectivity: an essay in the history of scientific ideas. Princeton, N.J., Princeton Univ. Press, 1960. 562p. $ 7.50 (The purpose of this book is to set out in narrative form the structure in the history of classical science; bibliographical essay-pages 521-43).

Hogben. Lancelot. Science in authority: essays. London, Unwin Univ. Books, 1963. 157p. 18/- (Though the starting point of essay is biological, the author reaches out to symbolic logic, medical statistics, racialism etc.)

Hogg, J.T. Science for all. London, Ward Lock & Co., 1950. 255p. (The object of this book is to put before the reader a number of generalities on science). NBG

Joravsky, David. Soviet Marxism and natural science, 1917-1932. London, Routledge and Kegan Paul, 1961. 435p. 45/ (History of interaction between Marxism and natural science; bibliography-pages 391-422).

Keneny, John G. A philosopher looks at science. Princeton, N.J., Van Nostrand, 1959. 273p. $ 6.50 (This is a book on the philosophy of science, bibliography - pages 265-69).

Leavis, F.R. Two cultures ? : the significance of C.P. Snow. London, Chatto and Windus, 1962. 45p. 7/6 (This is Richmond lecture, 1962; with an essay on 'Sir Charles Snow's Rede lecture' by Michael Yudkin).

Madden, Edward H., ed. The structure of scientific thought: an introduction to philosophy of science, London, Routledge, 1960. 381p. 35/- (The selections are divided into seven groups, 1) Making sense of science, 2) Philosophical problems of physics, 3) Biology and the sciences of man, 4) The meaning of 'cause' and 'law', 5) Probability notions, 6) The riddle of induction, 7) Science and values.)

Needham, Joseph. Science and civilization in China. Cambridge, Univ. Press, 1954-9. 290/- for 3 vols. (The scientific contribution of China is the theme of this work. Vol. 1 - Introductory orientations, Vol. 2 - History of scientific thought, Vol. 3 - Mathematics and the sciences of the heavens and the earth).

Price, Derek J. De Solla. Little science, big science. N.Y., Columbia Univ. Press, 1963. 119p. $ 4.50 (This book gives an idea of the phenomenal increase of scientific literature during recent years).

Price, Derek J. de Solla. Science since Babylon. New Haven, Yale Univ. Press, 1961. 149p. $ 4.50 (This book had its origin in five public lectures given at the Sterling Memorial Library at Yale University during October and November 1959. It is an analysis of the roots of our civilization, its present structure and probable future). USIS

Price, Don K. The scientific estate. Cambridge, Mass., Harvard, 1965. 323p. $ 5.95 (The Author discusses the problem of the new political status of science in relation to more fundamental questions - the nature of scientific knowledge and the way in which that knowledge bears on human purposes and human freedom).

Pyke, Magnus. Slaves unaware? : a mid-century view of applied science. London, John Murray, 1959. 208p. 16/- (The book is divided in three parts - 1) What science is, 2) Science for productivity, and 3) Science and teaching).

Rabinowitch, Eugene. Dawn of a new age: reflections on science and human affairs. Univ. of Chicago Press, 1963. 332p. $ 6.95 (The Author presents manifold problems of the nuclear age. He suggests that international cooperation among scientists and their scientific talents is the only solution to prevent nuclear war. He has devoted much attention on science, scientists and international policy). NAL

Singer, Charles. Short history of scientific ideas to 1900. Oxford, Clarendon Press, 1960. 525p. (This book gives an idea of how science came to occupy its distinctive position in the life of our own time). NBG

Snow, C.P. The two cultures: and a second look; 2nd edition. Cambridge, Univ. Press, 1964. 107p. 10/6 (This is an expanded version of 'The two cultures and the scientific revolution' - a Rede Lecture at Cambridge in May 1959. It describes the increasing gulf between scientists and writers.)

Sullivan, J.W.N. The limitations of science: a creative scientists' approach to the unknown. Viking Press, 1933. 192p. $ 0.50 (The Author emphasises the present-day science as limited but the potentialities as limitless). NAL

Taton, Rene, ed. Ancient and medieval science. London, Thames and Hudson, 1963. 551p. (This book deals with the long period scanning the first scientific groupings of prehistoric man and the middle of the 15th century, which heralded the beginnings of modern science). NBG

Zuckerman, Sir Solly. Scientists and war: the impact of science on military and civil affairs. London, Hamish Hamilton, 1966. 177p. 21/- (In this book the Author explores the relationship of the scientist to the military man. He discusses some of the economic and cultural consequences of the allocation of vast resources to defence research and development).

(e) Industrial Research

American Association for the Advancement of Science. Industrial science, present and future. Washington, D.C., Association, 1952. 152p. (A collection of papers presented at the installation of the Section on Industrial Science of the AAAS at the Philadelphia meeting on Dec. 28-30, 1951). USIS

American Management Association. Achieving full value from R & D dollars. N.Y., AMA, 1962. 108p. $ 3.00 (This report deals with various approaches to imporved effectiveness and efficiency in research and engineering programs. The need is stressed for more alert management at all stages of the corporate R & D effort. The papers were originally presented at an AMA Briefing Session on Research and Engineering held in Oct. 1961).

American Management Association. The commercialization of research results. N.Y., AMA, 1957. 99p. $ 3.00 (In this book, executives with experience in all phases of long-range planning and research management discuss the various aspects of a successful development program).

American Management Association. Creativity: key to continuing progress. N.Y., AMA, 1960. 27p. (This book contains four articles on different aspects of creativity).

American Management Association. Creativity in industrial scientific research, by John R. Hinrichs. N.Y., AMA, 1961. 39p. $ 1.50 (A critical survey of current opinion, theory and knowledge).

Auger, Pierre. Current trends in scientific research. Paris, Unesco, 1963. 245p. (Survey of the main trends of inquiry in the field of the natural sciences, the dissemination of scientific knowledge and the application of such knowledge for peaceful ends). CSIR

Bates, R.S. Scientific societies in the United States; 2nd edition. N.Y., Columbia Univ. Press, 1958. 297p. $ 6.50 (An account of history and work of American Societies).

Bichowsky, F. Russell. Industrial research. Brooklyn, N.Y., Chemical Pub. Co., 1942. 126p. (The purpose of this book is to display the social importance of research and to outline those general principles of of management and organization which have proven successful in the laboratory). USIS

Birr, Kendall. Pioneering in industrial research: the story of the General Electric Research Laboratory. Washington, D.C., Public Affairs Press, 1957. 204p. $ 4.50 (This institutional study is designed to offer a detailed picture of the operations of an exceptionally successful research institution. The study aims to present a detailed picture of laboratory's organization and administration and to demonstrate at some length the laboratory's shifting scientific interests and accomplishments. 13 pages of bibliographical source notes).

Bright, James R. Research, development, and technological innovation: an introduction. Homewood, Illinois, Irwin, 1964. 783p. $ 10.00 (The impact of technological change is extremely severe and disrupting. Conventional business school training is not adequate for this environment. It is necessary to create a sound understanding of technological innovation and its problems for all managers. The goal of this book is to provide this basic background for all students of management. 5-page bibliography).

Bush, George P. and Hattery, Lowell H., eds. Teamwork in research. Washington, D.C., American Univ-Press. 1953. 191p. (This volume is adapted from the proceedings of the Third Institute on Administration of Scientific Research and Development presented at Washington, D.C. by The American University with the cooperation of the National Research Council and the American Association for the Advancement of Science). USI

Cardwell, D.S.L. The organisation of science in England: a retrospect. London, Heinemann, 1957. 204p. 18/- (The author has confined hinself to scientists so far as they are the products of a complex educational machinery and the potential employees of specialised agencies. The study is limited to the period 1800-1914).

Carter, C.F. and Willians, B.R. Investment in innovation. London, OUP, 1958. 167p. 15/- (This book is a study of a part of the subject, which arises out of the work of the Science and Industry Committee appointed by the Royal Society of Arts and others to investigate factors influencing the rate of adoption of new scientific and technical ideas by British Industry).

Chaudhari, P.C. Science and progress, by P.C. Chaudhuri. Calcutta, Delia Chaudhuri, 1962. 130p. Rs.6.00 (The Author describes briefly the history of scientific achievement and the status of science in India today).

Colborn, Robert, ed. Modern science and technology. Princeton, New Jersey, Nostrand, 1964. 746p. (This is a selection of eighty-one articles on various phases of modern investigation of the physical world). CSIR

Conference on Industrial Research, 1952. Research operations in industry: papers delivered at the third annual Conference on Industrial Research, June 1962, with selected papers from the first and second conferences. N.Y., King's Crown Press, 1953. 453p. (Sponsored by the Dept. of Industrial Engineering, Columbia University). USIS

Crombie, A.C., ed. Scientific change: historical studies in the intellectual, social and technical conditions for scientific discovery and technical invention, from antiquity to the present. London, Heinemann, 1963. 896p. 105/- (This book is the outcome of a symposium, under the title 'The structure of scientific change,' held at Oxford on the 9-15 July 1961 on the authority of the Oxford Univ. Committee for the History and Philosophy of Science).

Crow, Duncan. Scientific research. New Delhi, British Information Services, 1965. 40p. (This book describes Britain's research organisations and their functions). CSIR

Czechoslovak Academy of Sciences. Science in Czechoslovakia and the Czechoslovak Academy of Sciences. Prague, Academy, 1966. 173p. (Historical survey of the network of scientific research institutions; the Academy was established in 1952). CSIR

Davis, Watson. The century of science. New York, Duell, Sloan and Pearce, 1963. 313p. $ 5.95 (A record of man's achievement in aviation, communications, rockets and space, electronics, chemistry, health and medicine, the earth sciences, nuclear physics and a dozen other vital areas). USIS

Dearborn, DeWitt C. and others. Spending for industrial research, 1951-1952. Boston, Massachusetts, Harvard Univ., 1953. 103p. $ 2.50 (This is a survey of spending for research and development by industrial companies in 1951 and 1952. The survey was undertaken by Division of Research, Graduate School of Business Administration). USIS

Economic and Scientific Research Foundation. Research and industry: seven case histories. New Delhi, ESRF, 1966. 115p. Rs.7.50 (This is a collection of case histories of new research applications developed indigenously and throws light on some of the problems faced by innovators in marketing their ideas).

Economic and Scientific Research Foundation. Research technology and industry. New Delhi, Foundation, 1965. 43p. Rs.5.00 (Research paper no. 1; this paper examines the relationship between science and technology on one hand, and technology and industry on the other, with a view to understanding the role of 'technological innovation' in the process of economic growth).

Edwards, Ronald S. Co-operative industrial research. London, Pitman, 1950. 285p. 20/- (A study of the economic aspects of the Research Associations grant-aided by the Dept. of Scientific and Industrial Research, U.K.).

Erdey - Gruz, Tibor and Trencsenyi - Waldapfel, I. Eds. Science in Hungary. Budapest, Corvina Press, 1965. 315p. (Contributions on different sciences, first contribution is on 'Principal features of the organization of scientific research in Hungary'). CSIR

Freedman, Paul. The principles of scientific research; 2nd edition. London, Pergamon Press, 1960. 228p. (First published in 1949, the Author has endeavoured to be brief, to present the matter as clearly as possible, to keep mathematics to the bearest minimum, and to give, whenever possible, simple examples illustrating the principles expounded). CSIR

Garrett, Alfred B. The flash of genius. Princeton, Van Nostrand, 1963. 249p. $ 6.50 (This is a collection of fifty-one discoveries in the fields of chemistry and physics, describing in the discoverer's own words, in so far as possible, the key event or experiment that led to the discovery).

Gartmann, H. Man unlimited: technology's challenge to human endurance; translated from the German by Richard and Clara Winston. London, Jonathan Cape, 1957. 221p. 18/- (Original work published in 1955; Is man the link in the chain of technology? - this question is answered in this book).

Gartmann, Heinz. Science as history: the story of man's technological progress from steam engine to satellite; translated from the German by Alan G. Readett. London, Hodder, 1960. 348p. 25/- (Bibliography-pages 337-43).

Gould, Sidney, ed. Sciences in Communist China: a symposium presented at the New York meeting of the American Association for the Advancement of Science, Dec. 26-27, 1960. Washington, D.C., The Association, 1961. 872p. 140/- (Publication No. 68; the general purpose of the symposium was to improve communication to Western audiences of the results of scientific research conducted in China).

Gray, Dwight E. and Coutts, John W. Man and his physical world. New York, Nostrand, 1962. 682p. (Emphasis is on methods, history and theories of physical sciences. Topics are discussed in interrelated manner to give the book as a whole recognizable continuity, with each section flowing logically from the one that precedes it and leading naturally into the one that follows. For the most part, the approach is historical). NBG

Gruber, Ruth, ed. Science and the new nations: the proceedings of the International conference on science in the advancement of new states, at Rehovoth, Israel. N.Y., Basic Books, 1961. 314p. $ 6.50 (The conference was sponsored by the Weizmann Institute of Science and was held in the summer of 1960).

Habbakur, H.J. American and British technology in the nine-teenth century: the search for labour-saving inventions. Cambridge, Uni. Press, 1962. 222p. 32/6 (In this book nineteenth-century developments in technology are reexamined; the work originated in lectures given at Columbia University in the autumn of 1958).

Hagen, Everett E. Handbook for industry studies. Glencoe, Illinois, Free Press, 1958. 89p. (This book will be useful to research workers studying economic development in underdeveloped countries. It is published on behalf of 'The Center for International Studies, Massachusetts Institute of Technology). USIS

Hankey, Sir M. Frank and Hetherington, A.L. Industrial research and development in the United Kingdom: a survey. London, Faber and Faber, 1945. 375p. 25/- (The contents are divided into five parts- 1) Productive industries, 2) Research for the community, 3) Government action, 4) Independent institutions affecting industrial progress, and 5) General factors affecting industrial progress).

Holland, Maurice and others. Management's stake in research. N.Y., Harper, 1958. 143p. $ 3.50 (The purpose of the book is to bring industrial research into the focus of its role in industry as an essential tool of management, it is a reportage on how it is being done).

Holmstrom, J. Edwin. Records and research in engineering and industrial science; 3rd edition. London, Chapman & Hall, 1956. 491p. 60/- (The object of this book to serve as a guide to the sources of technical knowledge; bibliography - pages 446-76).

Industrial research in Britain, 4th edition by A.W.Haslett. London, Harrap Res. Pub., 1962. 461p. 84/- (This book gives an account of the industrial research activities of the government, research organisations universities and professional and learned societies).

Klemm, Friedrich. A history of Western technology. London, Allen & Unwin, 1959. 401p. 32/- (Translated by D.W. Singer from the German original published in 1954, this book derives from a series of lectures delivered by the Author on the history of the exact sciences and technology, bibliography - pages 389-92).

Korol, Alexander G. Soviet research and development: its organization, personnel, and funds. Cambridge, Mass., M.I.T. Press, 1965. 375p. $ 11.00 (Study sponsored by the Office of Economic and Manpower Studies, National Science Foundation).

Lothrop, Warren C. Management uses of research and development. N.Y., Harper, 1964. 148p. $ 4.00 (The volume is primarily addressed to the businessman or the security analyst who is concerned with the place of technology in a consumer - oriented industry).

Meier, Richard L. Science and economic development: new patterns of living. N.Y., Wiley, 1956. 266p. $ 6.00 (This book traces out a new path for economic development which is suggested by postwar discoveries in science and technology. This book is co-published by the Technology Press of Massachusetts Inst. of Technology).

Melville, Henry. The Department of Scientific and Industrial Research. London, Allen & Unwin, 1962. 200p. 25/- (No. 9 in New Whitehall Series prepared under the auspices of the Royal Institute of Public Administration, the book gives an outline of how the DSIR meets its statutory obligations to encourage, promote and undertake scientific research and shows how the present organisation has developed over the last forty-five years. The Author has been Secretary to the CSIR, and head of DSIR since 1956).

National Industrial Conference Board. Research and development: its growth and composition. N.Y., NICB, 1963. 115p. $ 3.00 (Written by N.E. Terleckyj and H.J. Halper, Studies in Business Economics, No.82, describes the growth trends in research and development in USA and relates the volume of research to the volume of productive activity and capital investment)

Oliver, John W. History of American technology. N.Y., Ronald, 1956. 676p. (This historical survey is divided into four parts - 1) from Jamestown and Plymouth to the American revolution, 2) from American revolution to the civil war, 3) from civil war to 1900, 4) from 1900 to the present). USIS

Recent advances in Soviet science. London, Harrap, 1961. 224p. 25/- (This is a collection of articles taken from authoritative Soviet sources. The subject matter ranges from advances in atomic energy and automation to progress in medicine, agriculture, education and town planning). NAL

Reid, E. Emmet. Invitation to chemical research. Palisade, New Jersey, Franklin Pub. Co., 1963. 366p. $ 10.60 (This is a how-to-do-it book. Emphasis is put on the fact that research is not magic but a combination of careful experimenting, close observing, and logical thinking, the result being proportional to the quality and quantity of these simple ingredients). CSIR

Rigby, Paul H. Conceptual foundations of business research. N.Y., Wiley, 1965. 215p. $ 5.50 (This book seeks to provide the reader with an understanding of the kind of problems which scientific research seeks to solve and the approach it takes in solving them. It indicates the information which research seeks to develop and its various contributions to problem solving and decision making in the business firm; bibliography pages, 207-11).

Roberts, Edward B. The dynamics of research and development. N.Y., Harper & Row, 1964. 352p. $ 10.95 (By using the recently developed concepts of industrial dynamics, the Author here reveals a new systems method for studying and managing R and D. This identifies the essential policies and decisions that result in successful R and D projects, frames a general theory for explaining relationships between cause and effect, and then constructs mathematical models as specific measurement devices).

Roethlisberger, F.J. and Dickson, William J. Management and the worker. Cambridge, Mass., Harvard Univ. Press, 1939. 615p. $ 6.00 (An account of a research program conducted by the Western Electric Company, Hawthorne Works, Chicago. The book offers a continuous history of the entire series of experiments and relates together the many different inquiries).

Seiler, Robert E. Improving the effectiveness of research and development. N.Y., McGraw-Hill, 1965. 210p. $10.00 (Three major areas of investigation would be most productive - 1) application of quantitative methodology to R & D, 2) budgetary planning of R & D, and 3) project-selection methodology. These areas are emphasized in this book. This study was jointly financed by College of Business Administration Research Program, Univ. of Texas and Sandia Corporation).

Silk, Leonard S. The research revolution. N.Y., McGraw-Hill, 1963. 244p. $ 1.95 (The aim of the book is to consider the impact of outpouring research expenditures upon the American economy and society generally).

Singer, Charles and others, eds. A history of technology. (5 volumes). London, Oxford Univ. Press, 1956-58. 168/- each volume. (Vol. I - From early times to fall of ancient empires, 856p. Vol. II - The Mediterranean civilizations and the middle ages, 700 B.C. to A.D. 1500, 802p. Vol. III - From the renaissance to the industrial revolution, 1500-1750, 766p. Vol. IV - The industrial revolution, 1750 to 1850, 728p. Vol. V - The late nineteenth century, 1850 to 1900, 888p.).

Slamecka, Vladimir. Science in Czechoslovakia. N.Y., Columbia Univ. Press, 1963. 175p. $ 6.00 (This book describes the present organization of science and engineering research carried out on three levels: academies of science and professional societies, universities, and industry).

Slamecka, Vladimir. Science in East Germany. N.Y., Columbia Univ. Press, 1963. 124p. $ 5.00 (This report gives a brief account of present-day science in East Germany, it is primarily a practical guide to the organization, the research installations, and the information sources of East German science and technology).

Srinivasan, N. Plan for national aviation development for India. Madras Institute of Technology. 70p. (Apart from defence requirements India needs various designs of aircrafts for civilian use. This book will stimulate interest in this nascent industry and will attract the attention of technologists and scientists).

Stanford Research Institute. International Industrial Development Center. Scientific research and progress in newly developing countries, by Eugene Staley and David C. Fulton. Menlo Park, the Center, 1961. 48p. $ 3.00 (Based on a Working Group's discussions focused on ways in which technology might help the developing countries to achieve their aims of development).

Stewart, Irvin. Organizing scientific research for war: the administrative history of the Office of Scientific Research and Development. Boston, Little, Brown & Co., 1948. 358p. (This book outlines the overall committees, special committees, divisions, panels, and the chairman's office of OSRD, as well as the various research groups and the Office of Field Service. It tells how liaison was achieved with the armed services and allied governments). USIS

Thomas, Morgan. Atomic energy and Congress. Ann Arbor, Univ. of Michigan Press, 1956. 301p. $ 4.75 (The Institute of Public Administration at the Univ. of Michigan was the parent organization for the group of researchers who did this work. It is based on documentary material and interviews).

Van Doren, Harold. Industrial design: a practical guide to product design and development; 2nd edition. N.Y., McGraw-Hill, 1954. 379p. (This book is addressed to engineers and draftsmen who have certain types of design problems to solve and also to business executives, with the hope that it will bring to focus the proper relationship between their own personnel and the professionals they engage to perform this specialised service). NAL

White, Frederick A. American industrial research laboratories. Washington, D.C., Public Affairs Press, 1961. 228p. $ 6.00 (This book attempts to provide a first order spectrum of the industrial laboratory's contributions to science itself. The author has visited forty major laboratories throughout the United States and talked with research directors and others who supplied not only facts but perspective; bibliography - pages 214-17). USIS

Wilson, E. Bright, Jr. An introduction to scientific research. New York, McGraw-Hill, 1952. 375p. (This book is an attempt to collect in one place and to explain as simply as possible a number of general principles, techniques, and guides for procedure which successful investigators in various fields of science have found helpful). USIS

(f) Agricultural Research

Aiyer, A.K. Yegna Narayan. Village improvement and agricultural extension; 2nd edition. Bangalore, Bangalore Printing & Pub. Co., 1958. 222p. Rs.8.75 (The Author was an agricultural officer in the Mysore state. He has brought together in this book his thought and experiences in the work of popularisation and introduction of improved agricultural practices).

American Association for the Advancement of Science. Agricultural sciences for the developing nations: a symposium...; edited by Albert H. Moseman. 1964. 221p. 68/- (This symposium presented at the Cleveland meeting of the AAAS in 1963, was devoted to the role of agricultural science and technology in the acceleration of economic progress in newly developing nations).

Bliss, R.K. and others, eds. The spirit and philosophy of extension work as recorded in significant extension papers. Washington, Graduate School, U.S. Dept. of Agriculture, 1952. 393p. $ 4.50 (This book records in their own words the vision of many of the pioneers in extension work and brings together important declarations of policy and philosophy that have guided the federal and state extension services through the years).

Bramley, Margaret. Farming and food supplies: the case for expansion of British agriculture. London, George Allen and Unwin, 1965. 131p. 20/- (This book examines the case for further expansion against the background of mass hunger and rising population in many parts of the world. The possibility of a general food shortage is considered with its grave implications for Britain).

Britnell, G.E. and Fowke, V.C. Canadian agriculture in war and peace, 1935-50. Stanford, California, Stanford Univ. Press, 1962. 502p. $ 8.75 (This volume sets out the basic elements of agricultural policy and the conditions of food supply in Canada during the Second World War. Its purpose is to note the impact of war upon the Canadian agricultural producer, to outline the readjustments which were made in response to this impact and to indicate the steps which the Canadian farming community returned to peacetime circumstances).

Brunner, Edmund deS. and Yang, E. Hsin Pao. Rural America and the extension service: a history and critique of the cooperative agricultural and home economics extension Service. N.Y., Bureau of Publications, Teachers College, Columbia Univ., 1949. 210p. $ 3.00 (In this volume the developing history and program of the United States Extension Service are viewed as the product of the changing social and economic milieu within which it functions and of which it was, and is, a part).

Buck, John Lossing and others. Food and agriculture in Communist China. New York, Praeger, 1966. 171p. $ 6.00 (This book contains four essays. The first essay by J.L. Buck constitutes the groundwork in Chinese agricultural statistics. In the second essay by Yuan-li Wu attempt is made to determine the causes of inaccuracy in statistical reporting on food production. Third and Fourth essays by Owen L. Dawson deal with fertilizers and irrigation respectively).

Conference on 'Agriculture in the British economy.' London, Imperial Chemical Industries Limited, 1957. 311p. 21/- (Proceedings of Conference held in Nov. 1956, consider the part which home agriculture, could or should, play in providing for future food requirements of U.K.).

Dahama, O.P. Extension and rural welfare; 4th edition. Agra, Ram Prasad & Sons, 1966. 708p. Rs.12.50 (The contents are grouped under seven parts- 1) Community development, 2) Extension education, 3) Educational psychology, 4) Rural sociology for extension workers, 5) Rural welfare 6) Extension administration, 7) Programme planning and its execution).

Darin-Drabkin, Dr. H. The other Society. London, victor Gollancz, 1962. 356p. 35/- (The book comprizes four sections. First is mainly descriptive depicting the day-to-day mechanism of the economic and social activity of kibbutz, the second examines its economic efficiency. The third section seeks to examine to what extent the kibbutz has integrated into the surrounding society and the last section is dedicated to an examination of the specific contribution made by the kibbutz towards the solution of the problems of modern society).

Dodge, Bertha S. Plants that changed the world. London, Phoenix, 1962, 174p. 15/- (This book is an attempt to describe some of the plant products that have helped make history).

Duckham, A.N. The farming year: agricultural synthesis. London, Chatto and Windus, 1963. 525p. 75/- (This book has two objectives. First, to analyse and explain, in terms of science, economics and work energy, the operations of the farming year. Second, to make, from this data, a synthesis which will prove useful to the reader and stimulate the next generation to seek and set up the quantified principles we need).

Dumont, Rene. Lands alive (Terres Vivantes). London, Merlin Press, 1965. 247p. 35/- (This book explains how the agricultural progress can be abundant and swift enough never to be overswamped by the demographic flux. Translated from the French by Suzanne and Gilbert Sale).

Fay, Ivan G. Notes on extension in agriculture. Bombay, Asia, 1962. 204p. Rs.10.00 (The early movements of agricultural extension in India are clearly outlined. Stress is laid on the importance of personal meeting, the group discussion method, visual and audio-visual aids and youth clubs).

Garg, J.S. Agricultural extension (scope & methods) and community development; 2nd edition. Agra, Gaya Prasad & sons, 1961. 380p. Rs.12.50 (This book has been prepared for the use of graduate students of agriculture. It is the result of an effort to bring together the information available on the subject of agricultural extension, lying scattered in the publications of FAO, Ministry of Community Development and others).

Ghose, R.L.M. and others. Rice in India. New Delhi, Indian Council of Agricultural Research, 1956. 507p. Rs.21.00 (This book gives comprehensive information on the work done in the fields of agriculture, marketing and technology of rice).

Gittinger, J. Price. Planning for agricultural development: the Iranian experience. Washington, National Planning Association, 1965. 121p. $ 2.00 (This publication of NPA's Center for Development Planning is a second monograph issued in the Centre's "Planning experience series". It recounts how the agricultural portion of the third five year plan for Iran which began in 1962 was prepared).

Gray, Howard Levi. English field systems. London, Merlin Press, 1959. 568p. 63/- (This book deals with the settlement of England and the history of British agriculture).

Griswold, A. Whitney. Farming and democracy. New Haven, Yale Univ. Press, 1963. 227p. $ 5.00 (This is a book about an idea - that farming as a family enterprise is the backbone of democracy. The book discusses the origin of the idea, its historic influence on public policy in Great Britain, France and the United States, and its possible significance for the future of both American agriculture and American democracy.)

Groenveld, D. Investment for food. Amsterdam, North-Holland Pub. Co., 1961. 146p. 13/6 (This study discusses the factors which determine at what level investments for food production should be made to ensure the growth in the supply of food in line with effective future demand).

Halperin, Haim. Agrindus: integration of agriculture and industries. London, Routledge and Kegan Paul, 1963. 214p. 35/- (The stormy revolution we are witnessing at the beginning of the atomic age has brought the village to the brink of disintegration. The purpose of this book is to present the problem of the village as a social, organizational, political, economic and technological category which is in the throes of crisis).

Hathaway, Dale E. Government and agriculture: public policy in a democratic society. N.Y., Macmillan, 1963. 412p. $ 8.95 (This is a book about agricultural policy in the United States since Second World War. It deals with economic background and consequences of various policy proposals).

Heady, Earl O. and Dillon, John L. Agricultural production functions. Ames, Iowa, Iowa State Univ. Press, 1961. 667p. $ 6.95 (This book summarizes certain concepts and methods relating to the prediction and use of agricultural production functions. Emphasis is on concepts, principles, and methodological results. Practical application is considered to be a second step in communicating principles and prediction for farmer use).

Howard, Louise E. Sir Albert Howard in India. London, Faber and Faber, 1953. 272p. 21/- (The scientific investigations carried out by Sir Albert Howard during his career in India are explained in this book. They illuminate modern practice under tropical conditions. Throughout the years passed by him in India an early and sustained interest was displayed in putting agricultural research into its right relation with the needs of the people).

Jacoby, Erich H. Agrarian unrest in Southeast Asia. 2nd ed. Bombay, Asia Pub. House, 1961. 279p. Rs.17.00 (The Author has analyzed the impact of the political, economic and social developments of the last decade on the agrarian situation).

Jain, Dr. Sharad Chandra. Problems and policies of Indian agriculture. Allahabad, Kitab Mahal, 1963. 192p. Rs.7.50 (This study is mainly devoted to analysing and critically examining the major problems that confront our agriculture today in the light of the existing agricultural policies).

Japan FAO Association, Tokyo. Agriculture at the crossroads: what are Japanese farmers thinking of tomorrow? Tokyo, Association, 1961. 82p. $ 2.50 (This is a book on farmers' life, thoughts, and performances. It shows how the farmers have adapted themselves to the new situation brought about by land reforms, successive bumper crops, striding development of agricultural technique etc.).

Kool, Rudolf. Tropical agriculture and economic development. Wageningen, H. Veenman & Zonen, 1960. 151p. Rs.12.00 (This book deals with economic consequences of natural conditions, labour output of the tropical farmer, marketing research for tropical products etc.).

Kelsey, Lincoln David and Hearne, C.C. Cooperative extension work; 3rd edition. Ithaca, N.Y., Comstock Publishing Associates, 1963. 490p. $ 6.75 (This book has been prepared for use by upperclassmen and graduate students in cooperative extension education. The Authors have brought together information which every extension worker should have at hand).

Knight, Sir Henry. Food administration in India 1939-47. Stanford, California, Stanford Univ. Press, 1954. 323p. $ 7.50 (The object of this study is to trace how food administration in India during and after the war developed from nothing to almost as complete a system of food control as in any Western Country, and to state briefly the measures taken to increase India's food production).

Laird, Roy D., ed. Soviet agricultural and peasant affairs. Lawrence, Univ. of Kansas Press, 1964. 335p. 60/- (These are reports presented at the Conference on Soviet Agricultural and Peasant Affairs, Sep. 20-22, 1962. The symposium considers such questions as-What are the changes in rural situation, results of Kruschev's reforms, impact of new incentives etc.)

Laird, Roy D. and Crowley, Edward L., eds. Soviet agriculture: the permanent crisis. N.Y., Praeger, 1965. 209p. $ 7.00 (This volume is an outgrowth of the International Symposium on Soviet Agriculture held at the Institute for the Study of the USSR in Munich, Germany, in February 1964. It includes discussion on revolutionary situation, campaign for intensification etc.).

Kumar, L.S.S. and others. Agriculture in India; Vol. I: general. Bombay, Asia, 1963. 252p. Rs.14.00 (This book gives details regarding plant forms, their functions and the chemistry of agriculture in general. It gives an interesting survey of soil and crop management of some of the agricultural commodities sown and harvested in India. It also deals with animal industry).

Martin, Anne. Economics and agriculture. London, Routledge and Kegan Paul, 1958. 169p. 21/- (This book deals with only those parts of economics that are most directly relevant to agriculture, whether for the study of production on the individual farm, or for consideration of the problems of the agricultural sector of the economy as a whole. It contains two chapters on public policy, pages 85-138).

Moriarty, M.J., ed. New Zealand farm production and marketing. Wellington, New Zealand Instiute of Public Administration, 1963. 98p. 24/- (This book discusses the organisation of the farming industry and the relationship of price fixing schemes to production policies. Contain an article on 'Research and its application' by C.P. McMeekan, p. 30-45).

Mosher, Arthur T. Getting agriculture moving: essentials for development and modernization. N.Y., Praeger, 1966. 190p. 18/- (This book is about making agriculture more productive to the country in which it is located while providing a better living for the farm people who engage in it. It deals with needs and problems at early stages of agricultural development).

Mundlak, Yair. An economic analysis of established family farms in Israel, 1953-1958. Jerusalem, Falk Project for Economic Research in Israel, 1964. 172p. 30/- (This work analyzes data collected in a sample of 66 established moshav farms located in six villages in various parts of the country).

Nash, S.T. and Attwood, E.A. The agricultural policies of Britain and Denmark: a study in reciprocal trade. London, Land Books, 1961. 94p. 15/- (The Authors have traced the essential features in the history of Danish agricultural production in which Britain has been the primary market. They make some constructive suggestions about the changes that are necessary for the future economic health of British agriculture).

National Council of Applied Economic Research. Factors affecting fertilizer consumption: problems and policies. New Delhi, NCAER, 1964. 104p. Rs.7.50 (This study analyses the main impediments to the use of commercial ferlisers and suggests ways of encouraging their consumption. The findings are based on the results of a sample survey).

Ogura, Takekazu, ed. Agricultural development in modern Japan. Tokyo, Japan FAO Association, 1963. 688p. (This symposium contain thirty chapters divided into three parts. The first deals with the economic aspects of agriculture, the second with the legal and the third with the technological).

Phillips, John. The development of agriculture and forestry in the tropics : patterns, problems, and promise. London, Faber and Faber, 1961. 212p. 42/- (The Author discusses the problems facing the tropical countries and the promise inherent in their natural resources, with special reference to their ecology and the bioclimatic divisions into which they fall).

Randhawa, M.S. Agricultural research in India: institutes and organisations. New Delhi, Indian Council of Agricultural Research, 1958. 448p. Rs.20.00 (The book provides an integrated account of research institutions, their ogranisation and activities).

Randhawa, M.S. Agriculture and animal husbandry in India. New Delhi, Indian Council of Agricultural Research, 1958. 364p. Rs.15.00 (This book contains information about all the important food and commercial crops of India. Facts regarding production of different crops as well as their important varieties are given. Facts are also given about breeds of cattle, sheep and goats, poultry and fishes which are of commercial importance).

Randhawa, M.S. and Nath, Prem. Farmers of India, Vol. I: Punjab, Himachal Pradesh, Jammu & Kashmir. New Delhi, Indian Council of Agricultural Research, 1959. 302p. Rs.14.00 (The book tells the story of the sons of the soil, of their character, community life and economic condition. The account is realistic and illuminated by a profound understanding of rural life in different states as shaped by history, geography, climate and religion).

Randhawa, M.S. and others. Farmers of India; Vol. II : Madras, Andhra Pradesh, Mysore & Kerala. New Delhi, Indian Council of Agricultural Research, 1961. 428p. Rs.23.00

Randhawa, M.S. and others. Farmers of India; Vol. III : Assam, Orissa, West Bengal, Andamans & Nicobars, Manipur, NEFA, Tripura. New Delhi, Indian Council of Agricultural Research, 1964. 429p. Rs.23.00

Rivlin, Helen Anne B. The agricultural policy of Muhammad Ali in Egypt. Cambridge, Massachusetts, Harvard Univ. Press, 1961. 393p. $ 8.00 (The purpose of the book is to discover if Muhammad Ali had an agricultural policy and then to describe it. The conclusion reached is that he merely utilized the agricultural wealth of Egypt for the purpose of personal aggrandizement).

Sanders, H.C. and others, eds. The cooperative extension service. Englewood Cliffs, N.J., Prentice-Hall, 1966. 436p. $ 8.50 (This volume contains contributions from forty-one experts. It deals with Cooperative Extension Service - its foundations, history, purposes, programs and techniques).

Self, Peter and Storing, Herbert J. The state and the farmer. London, George Allen & Unwin, 1962. 251p. 30/- (This book deals with agricultural policies and politics in Britain between 1945 and 1961. It deals with the attempts of the Government, working in close cooperation with agricultural organizations, to place British agriculture on a stable and efficient basis).

Shepherd, Geoffrey S. Farm policy: new directions. Iowa State Univ. Press, 1964. 292p. $ 6.95 (This book first reviews the early concepts of the farm problem in the United States, and traces briefly the development of the farm programs over the past three decades. It then appraises the programs, and in the light of their revealed inadequacy to deal with the problem, outlines programs of a different kind to take their place).

Shrinivasan, M. A decade of agricultural development in India. Bombay, Asian Studies Press, 1965. 164p. Rs.12.50 (Agricultural development has many faces, technical, organisational, institutional, financial, demographic, sociological etc. Each of these have been dealt separately in this book).

Smith, Thomas C. The agrarian origins of modern Japan. Stanford, Stanford Univ. Press, 1959. 250p. $ 5.00 (This book sketches the changes and suggests their significance for modern Japan. The changes are - agriculture became competitive, productivity increased, commercial and industrial activity in the countryside flourished etc.).

Wallace, T. and Marsh, R.W., eds. Science and fruit. Bristol, Univ. of Bristol, 1953. 307p. (This book is the outcome of Jubilee activities of Long Ashton Research Station. It presents the general picture of fruit research at the station for over fifty years). NBG

Thorner, Daniel and Thorner, Alice. Land and labour in India. Bombay, Asia, 1962. 227p. Rs.16.00 (Practically all of the articles which make up this book were written between 1952 and 1960. They reflect a number of lines of study into which the Authors have drawn whilst enquiring into the relations between agrarian structure and agricultural production).

Tostlebe, Alvin S. Capital in agriculture: its formation and financing since 1870. Princeton, Princeton Univ. Press, 1957. 232p. $ 6.00 (This book attempts to measure the growth of capital in U.S.A., to relate this growth of capital to that of the farm labour force and to output; and to discover the principal determinants of investment in the various types of agricultural capital and the sources of financing that made the investments possible.)

Walker, Kenneth R. Planning in Chinese agriculture: socialisation and the private sector, 1956-1962. London, Frank Cass, 1965. 109p. 25/- (Part I provides an introductory description of the institutions established during the socialisation of agriculture; Part II assesses the importance of the private sector and Part III traces the actual movement of the policy towards the private sector).

Williams, H.T., ed. Principles for British agricultural policy. London, O.U.P., 1960. 317p. 18/- (This study was sponsored by Nuffield Foundation. In 1945 the Foundation brought together a group of experts to discuss long-term policy matters. This book is a record of the committee's discussions).

Winnifrith, Sir John. The Ministry of Agriculture, Fisheries and Food. London, George Allen & Unwin, 1962. 271p. 30/- (Part I gives a broad conspectus of the work of the Ministry and an account of its development and expansion. Part II describes The Ministry's work in detail. Part III describes the headquarters and local organization of the Ministry).

(g) Medical Research

American Foundation, New York. Medical research: a midcentury survey. Boston, Little, Brown & Co., 1955. $ 15.00 (For 2 vols.). (First volume deals with American medical research in principle and practice and second volume deals with unsolved clinical problems in biological perspective. These volumes present modern medicine in its relation to fundamental research in laboratories of biology, chemistry, physics and atomic energy with its radioactive isotopes serving medicine in diagnosis and in theraphy). ICMR

Anderson, Gaylord W. and Arnstein, M.G. Communicable disease control: a volume for the health officer and public health nurse. N.Y., Macmillan, 1956. 500p. (This volume is written principally from the standpoint of the community. Emphasis has been placed on those procedures which are designed to protect the population as a group rather than merely the individual).

Association of Teachers of Preventive Medicine. Readings in medical care. Chapel Hill, Univ. of North Carolina Press, 1958. 708p. $ 6.50 (This book is compiled by the Committee on Medical Care Teaching of the Association; it is divided into thirteen chapters, each of which covers a major aspect of the organization and administration of medical care in the United States).

Bloomgarden, Hank. Before we sleep. N.Y., Putnam, 1958. 246p. $ 3.95 (In this book the Author gives his impressions as to what is going on in American medical research. This is an attempt to present medical research not only as something vital to human life, but to explain that it is the integration of many components which are so often ignored by people interested in it and its fruits).

Borkar, G. Health in independent India: a decade of progress. New Delhi, Ministry of Health, 1957. 224p. (This is a record of the work done by Central Health Ministry and the Health Ministries of the States).

Field, Mark G. Doctor and patient in Soviet Russia. Cambridge, Harvard Univ. Press, 1957. 266p. $ 5.00 (This study is divided into three parts - organization, doctor and patient. It presents an account of the state of medicine in Russia from the last days of the tsars to the end of 1956).

Freeman, Howard E. and others, eds. Handbook of medical sociology. Englewood Cliffs, N.J., Prentice-Hall, 1963. 602p. $ 8.25 (This is a collection of original articles by experts in four major divisions - 1) Sociology of illness, 2) Practitioners, patients, and medical settings, 3) Sociology of medical care and 4) Strategy, method, and status of medical sociology. Includes two articles on Sociomedical research - pages 423-71).

Gemmill, Paul F. Britain' search for health: the first decade of the national health service. Philadelphia, Univ. of Pennsylvania Press, 1960. 171p. $ 5.00 (This book gives the general reader a simple, accurate, objective story of how the Health Service came into being, what it is like today, and how the British people feel about it).

Green, F.H.K. and Covell, Sir Gordon, eds. Medical research. London, H.M.S.O., 1953. 387p. 40/- (This volume gives a conspectus of officially sponsored medical research by British investigators during the war of 1939-45, in so far as the work was directly related to the war effort).

Hanlon, John J. Principles of public health administration; 4th edition. Saint Louis, C.V. Mosby Co., 1964. 719p. $ 11.50 (This book is divided into four parts - 1) Introduction, 2) Administrative considerations in public health, 3) Pattern of public health activities in the United States, 4) The future).

King, Maurice, ed. Medical care in developing countries: a primer on the medicine of poverty and a symposium from Makerere. London, Oxford Univ. Press, 1966. $ 22.00 (This book is largely the outcome of WHO/ UNICEF conference on "Health Centre and hospitals in Africa").

Klarman, Herbert E. The economics of health. New York, Columbia Univ. Press, 1965. 200p. $ 3.95 (The objective of this monograph is to engage the interest of economists in the problems of the health field. It is approached by reviewing the work that economists have performed in health and medical care, by relating this work to the mainstream of economic literature and by indicating some of the interesting and important questions that await exploration).

Lindsey, Almont. Socialized medicine in England and Wales; the national health service, 1948-1961. Chapel Hill, Univ. of North Carolina Press, 1962. 561p. $8.50 (This book deals with all aspects of National Health Service- quality of medical and dental care, doctor-patient relationship, functiong of hospitals, administration and cost of NHS, clinical freedom, medical research etc.).

Lynch, Matthew J. and Raphael, Stanley S. Medicine and the state. Springfield, Illinois, Thomas, 1963. 449p. $ 10.40 (This is an objective study of the relationship of medicine to the state. It deals with U.S.A., U.K., Germany, Austria, Australia, New Zealand, Canada, U.S.S.R. and Sweden).

McKeown, Thomas. Medicine in modern society: medical planning based on evaluation of medical achievement. London, George Allen & Unwin, 1965. 234p. 35/- (The purpose of this book is to examine the problems of medical services against the background of an interpretation of medical achievement).

Martin, J.P. Social aspects of prescribing. London, Heinemann, 1957. 180p. 21/- (This book contains an extensive analysis of the relationships between statistics about prescriptions and statistics representing various aspects of the circumstances under which prescribing takes place under British National Health Service. It deals with various elements of the administrative machinery developed in attempts to control the size of the drug bill).

Mustard, Harry S. Government in public health. N.Y., Commonwealth Fund, 1945. 219p. $ 1.50 (This monograph brings out the rapid extension of the field of public health. It describes the present trend toward increased federal control through the Public Health Service).

Ross, James Stirling. The national health service in Great Britain: an historical and descriptive study. London, Oxford Univ. Press, 1952. 398p. 35/- (This book gives a reasoned account of the Service, tracing first its historical antecedents and the evolution of the policy, and thereafter the story of its planning and institution, its administrative practice, and its larger problems).

Schmeckebier, Laurence F. The public health service: its history, activities and organization. Baltimore, Maryland, Johns Hopkins Press, 1923. 298p. $ 2.00 (This monograph gives the history of the establishment; its functions; its organisation for the handling of these activities, the character of its plant; a compilation of, or reference to, the laws and regulations governing its operations etc.).

Stern, Bernhard J. Medical services by government; local, state, and federal. New York, Commonwealth Fund, 1949. 208p. $ 1.50 (This monograph is primarily an inventory, in historical perspectives, of medical services now being provided directly and indirectly by U.S. Government agencies on all levels, local, state and federal).

Thorwald, Jurgen. Science and secrets of early medicine. London, Thames & Hudson, 1962. 331p. (This book contains the origin, history and development of the medicine in Egypt, Mesopotemia, India, China, Mexico and Peru). NBG

I.B. - BOOKS (Not Annotated)

(Available with National Laboratories and Research Associations)

Acheson Industries, Inc. Edward Goodrich Acheson, a pathfinder: inventor, scientist, industrialist. Michigan, Acheson Industries. 63p. CERI

Advanced scientific and industrial research in engineering: mechanical engineering. Jerusalem, Israel Programme for Scientific Translations, 1961. 383p. CMERI

Ahmad, Aqueil and Gupta, S,P. Opinion survey of scientists and technologists. New Delhi, CSIR, 1967. (Survey report, No. 9). 82p.

American Management Association. Making effective use of research and development. New York, AMA, 1956. 55p. SITRA

Anthony, Robert N. Management control in industrial research organisation. Boston, Harvard Univ., 1952. 537p. SITRA

Applied scientific research: mechanics, heat, chemical engineering, mathematical methods; reports published under the auspices of the Central National Organisation for Applied Scientific Research in the Netherlands. The Hague, Nijhoff, 1960. 479p. CMERI

Armytage, W.H.G. Social history of engineering. London. Faber & Faber, 1961. 378p. CRRI

Association of Scientific Workers of India. Symposium on science and the nation during third plan, held on July 27-30, 1964 in New Delhi. Delhi, Association, 1964. 10p. CDRI

Barnier, L. Secrets of Soviet sciences. London, Allan Wingate, 1959. 105p. CMERI

Battey, Edward W., ed. Scientific and technical education and careers. London, Herbert Pub. Co., 1959. 145p. CRRI

Bhatia, Mohan, Comp. Science in India. New Delhi, Survey and Planning Research Unit, C.S.I.R., 1965. 67p. CRRI

Bhatia, S.L. Science and the humanities. Bombay, Orient Longmans, 1962. 124p. CRRI

Boltz, C.L. Statue to Mr. Trattles and other scientific topics. London, Butterworths Scientific Publications, 1952. 168p. 12/6 CERI

Bonnell, A.T. Industrial science, present and future. Washington, Advancement of science. RRL

Born, M. Physics and politics. Liver & Boyd, 1962. 86p. Rs.10.00 CSIO

Brown, G.B. Science: its methods and its philosophy. London, Allen Unwin, 1950. 189p. CDRI

Buchanan, R.A. Technology and social progress. Oxford, Pergamon Press, 1965. 172p. 25/- CERI

Cadambe, V. Engineering research in India. New Delhi, CSIR, 1954. 114p. CRRI

Caldin, E.F. Power and limits of science: a philosophical study. London, Chapman Hall. 196p. 8/4 CERI

Calvert, Robert. Patent practice and management for inventors and executives. New York, Reinhold, 1950. 371p. $ 5.00 CERI

Campbell, Murry and Hatton, Harrison. Herbert H. Dow: pioneer in creative chemistry. New York, Appleton-Century Crofts, 1951. 168p. $ 2.10 CERI

Campbell, Norman. What is science? New York, Dover Publications, 1952. 186p. $ 1.25 CERI

Cardwell, D.S.L. Organisation of science in England. London, Heinemann. 18/- RRL

Carter, C.F. and William, B.R. Industry and technical progress. London, Oxford Univ. Press, 1957. 244p. SITRA, CMERI

Casey, Robert and Perry, James W. Punched cards: their applications to science and industry. New York, Interscience Publishers, 1951. 506p. $ 10.00 CERI

Chalmers, T.W. Historic researches: chapters in the history of physical and chemical discovery. London, Morgan Brothers, 1949. 228p. 21/- CERI

Chowdhury, P.N. A study on the conservation of foreign exchange by the national laboratories. New Delhi, CSIR, 1966. (Survey report No.4) 15p.

Clark, Emerson. How to prepare effective engineering proposals. Illinois, T.W. Pub. 57/- RRL

Cohan, Leonard and Craven, Kenneth. Science information personnel. New York, Science Information, 1961. 74p. CRRI

Coleman, H.S., ed. Laboratory design. New York, Reinhold, 1951. 393p.

Collcutt, R.H. and Reader, R.D. Applying O.R. to the management of the O.R. Department at BISRA. London, British Iron and Steel Research Association, 1966. 22p.

Connell, Vera, ed. The application of results of research, British Commonwealth Scientific Conference. 1952. SITRA

Cosslett, V.E., ed. Relations between scientific research in the universities and industrial research, a report on condition in Great Britain. London, International Association of Univ. Professors and Lecturers, 1955. 187p. 13/11 CERI

Counell, V. The application of results of research. London, Butterworths, 1954. 212p. CMDRI

Cox, Ian. Science survey: talks by leading men of science given originally in the BBC's weekly programme. London, Sampson Low, Marston & Co., 1948. 322p. NBC

Crane, E.J. and others. Guide to the literature of chemistry. New York, Wiley, 1957. 397p. $ 9.50 CERI

Dearborn, Dewitt C. and others. Spending for industrial research, 1951-52. Harvard Univ. Graduate School of Business Administration, 1953. 103p. SITRA

De Garmo, E. Paul. Engineering economy. N.Y., Macmillan, 1960. 580p. CRRI

Derry, T.K. and Williams, Trevor I. Short history of technology from the earliest times to A.D. 1900. Oxford, Clarendon Press, 1960. 782p. CRRI

Directory of British scientists. London, Ernest Benn, 1963. 1289p. CRRI

Dodge, F.W. Buildings for research. U.S.A., Corporation, 1959. 224p. CDRI

Douglas, Mckie. Antoine Lavoisier: scientist, economist, social reformer. London, Constable, 1952. 334p. 30/- CERI

Draheim, Kirk and others. The development of a potential defense R & D complex: a study of Minneapolis - Saint Paul. Stanford Research Institute, 1966. 188p. $ 4.75

Dunsheath, Percy, ed. Century of technology, 1851-1951. London, Hutchinson's Scientific and Technical Publications. 346p. 10/- CERI

Dunsheath, Percy, ed. Industrial research. London, Todd Reference Books, 1947. 526p. SITRA, RRL, CDRI

Eddington, Arthur. Philosophy of physical sciences. Cambridge Univ. Press, 1949. 230p. CDRI

Edwards, J.A. Laboratory management and technique. London, Butterworths. RRL

Edwards, Ronald S. Industrial research in Switzerland. London, Pitman, 1950. 111p. 14/- CERI, RRL

Esslinger, William. Politics and science. N.Y., Philadelphia Library, 1955. 168p. CDRI

Farber, E. Great chemists. Interscience, 1961. 1300p. Rs.4.87 CSIO

Federation of British Industries. Industry and research. London, Pitman. 11/- RRL

Findlay, Alexander. Hundred years of chemistry; 3rd edition. London, Gerald Duckworth, 1965. 335p. 35/- CERI

Forbes, R.J. Man the maker: history of technology and engineering. London, Constable, 1950. 355p. 16/11 CERI

Forbes, R.J. and Dijksterhuis, E.J. A history of science & technology: nature obeyed and conquered; ancient times to the 17th century. Penguin Books, 1963, 294p. NBG

Fortune. Mighty force of research. New York, McGraw-Hill, 1956. 308p. CRRI

Fowler, W.S. Development of scientific method. Oxford, Pergamon Press, 1962. 116p. 21/- CERI

Freedman, Paul. Principles of scientific research; 2nd edition. Pergamon Press, 1960. 228p. SITRA

Fridland, L. Paths of science. Moscow, Foreign Language Publishing House, 1953. 296p. $ 2,81 CERI

Furnas, C.C. Research in industry: its organization and management. London, D. Van Nostrand, 1948. 574p. $ 5.00 CERI, SITRA, RRL

Gear, H.S. World medical research; principles and practices. London, Butterworth, 1959. 117p. CDRI

Green, D.W. and Knox, W.E., eds. Research in medical science. N.Y., Macmillan, 1950. 492p. CDRI

Griffith, R.A. Practice of research in chemical industries. London, Oxford Univ. Press, 1949. 184p. CDRI

Guy, K. Laboratory organization and administration. London, Macmillan, 1962. 386p. 50/- CERI

Haldane, J.B.S. Science and Indian culture. Calcutta, New Age Publishers, 1965. 194p. Rs.15,00 CERI

Hall, J.D. Industrial applications of infrared. N.Y., McGraw-Hill, 1947. CDRI

Harper, James I., ed. Chemical engineering in practice. New York, Reinhold, 1954. 140p. $ 3.95 CERI

Hertz, David B. Selection, training and use of personnel in industrial research. New York, King's Crown. 36/- RRL

Hertz, David Bendel. Theory and practice of industrial research. New York, McGraw-Hill, 1950. 385p. $ 5.50 CERI, SITRA, RRL

Hicks, T.G. Professional achievements for engineers and scientists. New York, McGraw-Hill. RRL

Hill, Dr. D.W. Co-operative research in industry. Hutchinson's Scientific and Technical Publication. IJIRA, SITRA

Hiscocks, E.S. Laboratory administration. London, Macmillan, 1958. 392p. CRRI, SITRA, RRL

Hogleen, L. Science for the citizen: a self-educator based on the social back ground of scientific discovery. London, Allen & Unwin, 1959. 1162p. CMERI

Howell, Richard P. and others. The economic impact of defence R.& D expenditures: in terms of value added and employment generated. Stanford Research Institute, 1966.

Hull, C. Industrial research laboratories of the U.S.A. Washington, National Academy of Sciences. 40/- RRL

Hull, L.W.H. History and philosophy of science: an introduction. London, Longmans & Green, 1959. 340p. 25/- CERI

Hutchings, E. Frontiers in science; a survey. London, Allen & Unwin, 1960. 362p. CMERI

Industrial and Scientific Research Association, Madras. Seminar on industrial and scientific research, held on 7-9, Feb. 1964, at the Rajaji Hall, Madras. 1964. CDRI

Institute of Applied Manpower Research. First seminar (Bombay, 1964) on collaboration between industries and technical institutions. 2vols. New Delhi, IAMR, 1964. SITRA

Institute of Applied Manpower Research. Second seminar (Madras, 1964) on collaboration between industries and technical institutions. 2vols. New Delhi, IAMR, 1964. SITRA

Institute of Applied Manpower Research. Stock-taking of research and design organisations. New Delhi, IAMR, 1964. 72p.

International Cooperation Administration. Activities and institutions of the industrial program. Washington, ICA, 1956. 217p. SITRA

Jaffe, B. Men of science in America. Popular Library, 1958. 350p. Re. 1.00 CSIO

Jarrett, H. Sciences and resources. Baltimore, John Hopkins Press, 1959. 250p. CMERI

Jeans, J. Growth of physical science. Cambridge Univ. Press, 1951. 364p. 10/- CERI

Johnson, Ellis A. and Striner, H.E. Research and development, resource allocation, and economic growth. Bethesda, Maryland, Johns Hopkins Univ., 1960. 37p.

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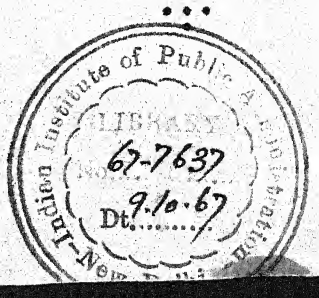

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